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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

| | | |
|--|-----------------------------------|--|
| Attorney Docket No. | HUTCP0101US | |
| First Inventor or Application Identifier | Robert H. Hutchins | |
| Title | CHESS GAME PLAYING ARRAY ASSEMBLY | |
| Express Mail Label No. | EK347601227US | |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Specification [Total Pages **18**]
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. Drawing(s) (35 U.S.C. 113) [Total Sheets **10**]
4. Oath or Declaration [Total Pages **2**]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

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5. Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Copy
 - b. Paper Copy (identical to computer copy)
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. Assignment Papers (cover sheet & document(s))
8. 37 C.F.R. §3.73(b) Statement Power of (when there is an assignee) Attorney
9. English Translation Document (if applicable)
10. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
11. Preliminary Amendment
12. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. * Small Entity Statement(s) Statement filed in prior application, (PTO/SB/09-12) Status still proper and desired
14. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
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16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

Continuation Divisional Continuation-in-part (CIP) of prior application No: _____ / _____

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant or Patentee: Robert H. Hutchins, Jr.

Attorney's Docket No. HUTCP0101US

Serial or Patent No. _____

Filed or Issued: _____

For: CHESS GAME PLAYING ARRAY ASSEMBLY

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STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR**

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled:

CHESS GAME PLAYING ARRAY ASSEMBLY

and described in

- the specification filed herewith
 application serial no. _____, filed _____
 patent no. _____, issued _____

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Dated: June 7, 2000



Robert H. Hutchins, Jr., Inventor

"EXPRESS MAIL" Mailing Label Number EK347601227US
Date of Deposit: June 9, 2000

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09/59112
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O N G E O D O - A T P T R G S E D

CHESS GAME PLAYING ARRAY ASSEMBLY

FIELD OF THE INVENTION

The present invention relates generally to a chess game playing array assembly and more particularly to a chess game playing array assembly having 5 multiple playing segments forming playing spaces on which a game of chess may be played.

BACKGROUND OF THE INVENTION

The game of chess has maintained its popularity for centuries. Numerous 10 ornamental designs of the chess game playing pieces, specifically, the king, queen, bishop, knight, rook and pawn, have added to this popularity. However, although the playing pieces have been regularly redesigned, the chess board on which the game of chess is played has remained substantially the same, even in the internet's electronic gaming environments. Previous attempts have been 15 made to redesign the chess board. These include, for example, three dimensional versions of the chess board, provisions for additional players, variations in the playing surface of the chess board, for example, landscape chess boards, and modifications to the actual game of play, for example, a chess board having a figure eight array of playing spaces.

20 The applicant recognized a need for a chess game playing assembly which would provide improved flexibility for arranging and/or designing various three dimensional chess game playing arrays.

SUMMARY OF THE INVENTION

25 The present invention provides a chess game playing array assembly including plural three dimensional playing segments disposed relative to one another to form a chess game playing array. According to a general aspect of the invention, the multiple three dimensional playing segments may be arranged and/or individually designed to form an unlimited number of playing array 30 assemblies embodying one or more themes or motifs.

According to an aspect of the invention, there is provided a chess game playing array assembly including a plurality of three-dimensional playing segments disposed relative to one another to define an array of playing spaces on which a game of chess may be played, the plurality of three dimensional playing segments being spaced apart by one or more voids.

In one embodiment, each of the plurality of three dimensional playing segments defines a playing space of the array of playing spaces although any particular playing segment may define two or more playing spaces. A playing segment may have a size different from that of another of the playing segments.

10 In another embodiment, the plurality of three dimensional playing segments comprises 64 playing segments defining, respectively, 64 playing spaces. Preferably, the playing segments are disposed relative to one another to define an array of 64 playing spaces consisting of eight rows and eight columns and the playing segments in the corners of the 64 space playing array have a height greater than the heights of the other playing segments.

15 In yet another embodiment, the plurality of three dimensional playing segments form a rectangular shape graduated array and include corner playing segments having a first elevation, middle playing segments having a second elevation, and intermediate playing segments having an elevation intermediate to that of the first elevation and second elevation. The first elevation may be higher or lower than the second elevation to achieve the graduated array.

20 In another embodiment, the spacing between the respective plurality of three dimensional playing segments is substantially uniform.

25 In regard to the three dimensional playing segments, in one embodiment, a three dimensional playing segment includes a bottom wall, a top wall and a column which connects and extends between the bottom wall and top wall. In another embodiment, at least one of the three dimensional playing segments includes a prescribed pattern located, for example, on one of its sides. An interior region may be provided in a three dimensional playing segment which may be sized to receive therein one or more playing pieces of a chess game. Also, or 30 alternatively, the interior region may house a lighting element. To this end, a wall

of the playing segment may be transparent or translucent to permit light from the lighting element to pass therethrough. Also, one or more of the walls may be transparent or translucent to enable viewing of the interior region, for example, prescribed patterns on the inside walls of the playing segment, or objects housed
5 in the interior region.

In another embodiment, one or more void fillers may be disposed in one or more of the voids. A void filler may include an upstanding wall separating adjacently disposed playing segments.

10 In yet another embodiment, the plurality of three dimensional playing segments includes first and second opposing playing segments. Each playing segment defines a four row by eight column array of playing spaces such that when disposed relative to one another an eight row by eight column array of playing spaces is formed. The first playing segment includes a different motif than that of the second playing segment.

15 In another embodiment, the chess game playing array assembly is displayed on a display as a graphical user interface. Also, a logic stored by a memory and processed by a processor may be used to display an image of the chess game playing array assembly on a display. The logic stored in memory may include a computer program adapted to receive design parameter inputs.

20 The design parameter inputs may include a respective size and shape of the three dimensional playing segments, a desired number of playing segments, a desired number of playing spaces provided by the respective quantity of playing segments, an arrangement of the playing segments and a respective size and shape of the voids.

25 According to another aspect of the invention, there is provided a chess game playing array assembly including a plurality of three-dimensional playing segments disposed relative to one another to define an array of playing spaces on which a game of chess may be played, wherein at least one of the playing segments includes a motif different from that of another of the playing segments.

30 In one embodiment, the plurality of three dimensional playing segments include first and second opposing playing segments, wherein the first playing

segment includes a different motif than that of the second playing segment. Each of the first and second playing segments may define, for example, a four row by eight column array of playing spaces such that when disposed relative to one another collectively an eight row by eight column array of playing spaces is formed. Also, the first and second segments may be disposed in opposing abutting relation or in spaced apart relation. Still further, the first and second segments may be sloped, for example, from an outer portion to a portion at which the playing segments oppose each other.

According to yet another aspect of the invention, there is provided a chess game playing array assembly including first, second and third three dimensional playing segments disposed relative to one another to define an array of playing spaces on which a game of chess may be played, the first and second playing segments each defining a two row by eight column array of playing spaces, and the third playing segment defining a four row by eight column array of playing spaces. The third playing segment is disposed between the first and second playing segments to form an eight row by eight column array of playing spaces.

In one embodiment, the first playing segment includes a different motif than that of the second playing segment. For a traditional chess game the first playing segment forms the original starting positions for a first chess player's pieces and the second playing segment forms the original starting positions of a second chess player's pieces.

The foregoing and other features of the invention are hereinafter more fully described and particularly pointed out in the claims, the following description and the annexed drawings setting forth in detail one or more illustrative embodiments of the invention, such being indicative, however, of but several of the various ways in which the principles of the invention may be employed.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic perspective view of one embodiment of a chess game playing array assembly in accordance with the present invention.

Fig. 2 is a front perspective view of the chess game playing array assembly of Fig. 1.

Fig. 3 is a front elevation view of the chess game playing array assembly of Fig. 1 as seen from the line 3-3 in Fig. 2.

5 Fig. 4 is a side elevation view of the chess game playing array assembly of Fig. 1 as seen from the line 4-4 in Fig. 2.

Fig. 5 is a top plan view of the chess game playing array assembly of Fig. 1 as seen from the line 5-5 in Fig. 3.

10 Fig. 6 is a top plan view of another embodiment of a chess game playing array assembly in accordance with the present invention.

Fig. 7 is a perspective view of one playing segment in accordance with the present invention.

Fig. 8 is a perspective view of another playing segment in accordance with the present invention.

15 Fig. 9 is a perspective view of another playing segment in accordance with the present invention.

Fig. 10 is a perspective view of another playing segment in accordance with the present invention.

20 Fig. 11 is a perspective view of another playing segment in accordance with the present invention, showing a playing piece in phantom disposed inside an interior region of the playing segment.

Fig. 12 is a perspective view of another playing segment in accordance with the present invention.

25 Fig. 13 is a sectional view of the playing segment of Fig. 12 as seen from the line 13-13 in Fig. 12, the playing segment including a lighting element disposed inside an interior region of the playing segment.

30 Fig. 14 is a perspective view of another playing segment in accordance with the present invention, the playing segment including a transparent or translucent top wall and a lighting element disposed in an interior region of the playing segment.

Fig. 15 is a partial perspective view of another chess game playing array assembly in accordance with the present invention.

Fig. 16 is a perspective view of another chess game playing array assembly comprising two opposing and abutting playing segments.

Fig. 17 is a perspective view of another chess game playing array assembly comprising three playing segments.

Fig. 18 is a block diagram of a display and computer in accordance with the present invention embodying a chess game playing array assembly.

10

DETAILED DESCRIPTION

Referring now to the drawings in detail and initially to Figs. 1 and 2, a chess game playing array assembly 10 according to the present invention is shown. The chess game playing array assembly 10 includes a plurality of three-dimensional playing segments 12 spaced apart by voids 14. The playing segments 12 are preferably mounted on a base 15 and are positioned relative to one another to define a playing array or grid on which a game of chess may be played. To this end, each playing segment 12 preferably includes one or more playing spaces 16 which form a portion of the playing array. In the illustrated embodiment, each playing segment 12 has a single playing space 16 (Fig. 5) and the arrangement thereof forms a traditional chess game playing array; i.e., there are 64 playing segments 12 providing, respectively, 64 playing spaces 16, the playing segments 12 being arranged in an eight row by eight column fashion.

It will be appreciated that the independent construction of the plurality of three dimensional playing segments 12 enables the playing segments 12 to be sized, dimensioned or otherwise altered to achieve any desirable design or motif. For example, as is shown in Figs. 3 and 4, the height H of the corner playing segments 12 (that is, the playing segments on which the Rook playing pieces are originally positioned in a traditional chess game) is greater than the height of any of the intermediate playing segments 12. Also, as is shown in Fig. 5, the lengths L of the respective playing segments 12 are generally greater than the widths W

thereof. More particularly, the playing segments 12 form a graduated chess game playing array assembly 10 wherein the corner playing segments 12 have the highest elevation, the middle playing segments 12 have the lowest elevation, and the intermediate playing segments 12 are gradually stepped downward in 5 elevation from the outer playing segments 12 to the middle playing segments 12. In addition, the playing segments 12 are preferably uniformly spaced apart. Further, the perimeter of the playing array assembly 10 may include arcuate edges which are generally convex in the length direction and generally concave in the width direction, as illustrated in the embodiment shown in Figs. 1-5.

10 It will be appreciated that the plurality of three dimensional playing segments 12 enables flexibility in arranging and designing any number of various chess game playing array assemblies while keeping with the manner in which the game of chess is played. For example, in the chess game playing array assembly of Figs. 1-5, the arrangement of the playing segments 12 forms a stadium motif while continuing to support the linear visual nature in the rows, 15 columns and diagonals of the array. In other words, the functional aspect of the game, that is, the ability to make lateral (left to right), longitudinal (forward and backward), diagonal or L-shape movements characteristic of the traditional chess game playing pieces is preserved.

20 Other chess game playing array assemblies may be formed embodying various designs or motifs depending on, for example, the respective size and shape of the three dimensional playing segments, the number of playing segments, the number of playing spaces provided by the respective playing segments, and the particular arrangement of the playing segments including the 25 size and/or shape of the voids, if any, therebetween. Thus, for example, as is shown in Fig. 6, which is a top plan view of a chess game playing array assembly 40, the size and shape of respective three dimensional playing segments 42 may be substantially the same and the arrangement thereof may be such as to form an essentially square shape playing array. Here, as in the playing array assembly 30 of Figs 1-5, the spacing or voids 44 between the three dimensional playing

segments 42 is substantially uniform throughout the chess game playing array assembly 40 and each playing segment 42 provides a single playing space 46.

Referring to Fig. 7, there is shown an enlarged view of an exemplary corner three dimensional playing segment 48 of the chess game playing array assembly 10 of Figs. 1-5. Here, one or more sides of the playing segment 48 may be arcuate to assist in forming the aforementioned arcuate edges of the playing array assembly 10. Fig. 8 shows an enlarged view of a single playing segment of the Fig. 6 playing array assembly 40. Although the playing segments 12, 48 and 42 forming the respective playing array assemblies 10 and 40 are six sided and are substantially rectangular or block shaped, other playing segments may take on different shapes and sizes as desired. For example, in Fig. 9 there is shown a playing segment 52 having a multi-sided top wall 54 and a bottom or base wall 56, and a non-uniform contoured riser or column 58 which connects and extends between the bottom wall 56 and top wall 54. Alternatively, as shown in Fig. 10, a three dimensional playing segment 62 may have an oval or round shape top wall 64 and base wall 66. Of course, a playing array assembly may include a combination of different shaped playing segments (not shown), for example, a combination of playing segments having some oval shaped top walls and some rectangular shaped top walls.

The chess game playing array assembly may be further enhanced by providing the three dimensional playing segments with one or more unique playing surface patterns, or textures. Thus, for example, for the three dimensional playing segments 12 forming the chess game playing array assembly 10 of Figs. 1-5, the respective playing spaces 16 thereof in the starting positions of the chess game playing pieces (i.e. original positions of the king, queen, bishop, knight, rook, pawn in a traditional chess game) may have a unique pattern, for example, a cobblestone pattern, and the respective playing spaces thereof between the starting positions (i.e., the "battleground" positions) may have another one or more textures or patterns resembling, for example, a mountainous or grassy terrain.

Each three dimensional playing segment may also, or alternatively, include a unique exterior or interior design. For example, as is shown in Fig. 2, the playing segments 12 may resemble buildings (e.g. 71, 72, 73 and 74) of a particular chess enthusiast's favorite city. Alternatively, the three dimensional 5 playing segments 12 may incorporate famous landmarks or even favorite paintings in the form of miniature murals on the side walls of the playing segments (not shown). Also, the chess playing segments 12 may have two different or contrasting colors so that when arranged they provide playing spaces 16 having alternating colors, as is the case, for example, for the traditional chess 10 game playing array.

The three dimensional playing segments may also or alternatively have interior regions into which further designs and/or accessories may be incorporated. For example, as shown in Fig. 11, a three dimensional playing segment 82 has an interior region 83 used for storing a playing piece P of a 15 particular chess game when the chess game is not in use. Alternatively, a three dimensional playing segment 92, as shown in Fig. 12, may include windows 95 in its side walls 97 and/or decorations or the like in the interior region 83. Further, as shown in Fig. 13, a lighting element L may be inserted into an interior region 99 of the three dimensional playing segment 92 which, when energized, casts 20 light through the windows 95 and into, for example, the voids between the respective three dimensional playing segments. In another three dimensional playing segment 102 shown in Fig. 14, a top wall 105 thereof may be translucent to enable light from a lighting element L to pass therethrough and surround and/or illuminate a playing piece P positioned on the illuminated playing segment 102.

25 The chess game playing array assembly may be further, or alternatively, enhanced by varying the dimensions and/or size of voids between the respective plurality of three dimensional playing segments. For example, in the illustrated chess game playing array assembly 10 of Figs 1-5 the voids 14 between the respective three dimensional playing segments 12 are either arcuate or 30 rectangular in shape and substantially uniform in width across the entire array. In the chess game playing array assembly of Fig. 6 the voids 44 between the

respective three dimensional playing segments 42 are rectangular in shape and substantially uniform in width across the entire array. It will be appreciated that widths of voids may vary in size and the voids may also be designed or enhanced to resemble streets, canals or rivers in between the respective playing segments.

5 Alternatively, one or more types of void fillers may be disposed in the voids between the respective playing segments. For example, as shown in Fig. 15, a void filler may comprise an upstanding wall 110 disposed in one or more voids 114 to form, for example, a barrier adjacent to respective playing segments 112. To this end, the three dimensional playing segments 112 of, for example, the king
10 and queen original starting positions, may have upstanding walls 110 which rise above playing spaces 116 of the respective playing segments 112 to form a barrier surrounding the respective king and queen playing pieces. Also, the void fillers may be removable/replaceable in the respective voids between playing segments. Alternatively, or in addition, void fillers may be fixedly connected to, or
15 integrally part of, the respective playing segments.

As was alluded to above, the chess game playing array assembly may also be designed and/or enhanced according to the desired arrangement of the multiple three dimensional playing segments. Thus, the illustrated embodiments include 64 playing segments arranged in an eight row by eight column fashion to form the traditional chess game playing array. Alternative arrangements of the
20 three dimensional playing segments may form a three player (or greater quantity) chess game playing array assembly, a circular chess game playing array assembly, or even a figure eight shaped chess game playing array assembly. The formation of a particular chess game playing array assembly may also be
25 facilitated by the individual construction of the three dimensional playing segments since each playing segment may be uniquely shaped and/or sized. Thus, for example, arcuate shaped three dimensional playing segments may be arranged to form the aforementioned circular shaped chess game playing array assembly.

30 Referring now to Fig. 16, there is shown a chess game playing array assembly 130 embodying two opposing and abutting three dimensional playing

segments 132a and 132b. In this embodiment, there is no void spacing the differing playing segments 132a and 132b apart from one another. Each playing segment 132a and 132b forms one half (i.e., an array of 32 playing spaces 136a and 136b, respectively) of a traditional chess game playing array. Although, the
5 illustrated playing segments 132a and 132b include individual landscape terrains, the playing segments may be graduated or sloped to provide a stadium-like configuration, as illustrated in Figs. 1-5. For example, each playing segment 132a and 132b may comprise a sports motif characterized by, for example, a chess enthusiast's favorite football team or baseball team. Thus, it will be
10 appreciated that the individual three dimensional playing segments 132a and 132b enable multiple theaters or motifs to be constructed and then paired up against an opposing theater or motif.

In accordance with the present invention, there may be any number of multiple three dimensional playing segments so long as the arrangement thereof
15 forms playing spaces on which a game of chess, traditional or otherwise, may be played. Thus, for example, as is shown in Fig. 17, a chess game playing array assembly 140 may include three three dimensional playing segments 142a, 142b, 142c, wherein a first playing segment 142a forms the original starting playing spaces 146a for a first player, a second playing segment 142b forms the original
20 starting playing spaces 146b for a second player and a third playing segment 142c forms the intermediate, or battleground, playing spaces 146c between the respective original starting playing spaces 146a and 146b of the respective first and second opposing playing segments 142a and 142b. Voids 148 are shown disposed between the respective playing segments 142a, 142b and 142c
25 although it will be appreciated that the playing segments 142a, 142b and 142c may be disposed in abutting relation to one another (i.e., wherein playing segment 142a abuts playing segment 142c on one side thereof and playing segment 142b abuts playing segment 142c on the opposing side thereof).

Referring now to Fig. 18, the present invention may also be embodied on a
30 computer 150 as a graphical user interface displayed on a display device 160 such as a computer screen, CRT, LCD or the like. Also, in accordance with the

present invention, the chess game playing array assembly 162 may be embodied as logic stored in a memory 164, the logic being capable of being processed by a processor 166, to generate a displayed image of the chess game playing array assembly 162 on a display 160. In addition, the design of the multiple three dimensional playing segments and/or the arrangement thereof may be assisted by a computer program, for example, a CAD or graphics program. The program may be adapted to receive various design parameter inputs, for example, the respective size and shape of the three dimensional playing segments, the number of playing segments, the number of playing spaces provided by the respective playing segments, and the particular arrangement of the playing segments including the size and/or shape of the voids therebetween. In this way, a designer may vary each parameter until a desirable chess game playing array assembly is formed.

Although the invention has been shown and described with respect to certain exemplary embodiments, equivalent alterations and modifications will occur to others skilled in the art upon reading and understanding this specification and the annexed drawings. In particular regard to the various functions performed by the above described integers (components, assemblies, devices, compositions, etc.), the terms (including a reference to a "means") used to describe such integers are intended to correspond, unless otherwise indicated, to any integer which performs the specified function of the described integer (i.e., that is functionally equivalent), even though not structurally equivalent to the disclosed structure which performs the function in the herein illustrated exemplary embodiment or embodiments of the invention. In addition, while a particular feature of the invention may have been described above with respect to only one of several illustrated embodiments, such feature may be combined with one or more other features of the other embodiments, as may be desired and advantageous for any given or particular application.

What is claimed is:

1. A chess game playing array assembly comprising:
 - a plurality of three-dimensional playing segments disposed relative to one another to define an array of playing spaces on which a game of chess may be played;
 - wherein the plurality of three dimensional playing segments are spaced apart by one or more voids.
2. A chess game playing array assembly as set forth in claim 1,
 - 10 wherein each of the plurality of three dimensional playing segments defines a playing space of the array of playing spaces.
3. A chess game playing array assembly as set forth in claim 1,
 - 15 wherein at least one of the plurality of three dimensional playing segments defines two or more playing spaces of the array of playing spaces.
4. A chess game playing array assembly as set forth in claim 1,
 - 20 wherein at least one of the plurality of three dimensional playing segments has a size different from that of another of the playing segments.
5. A chess game playing array assembly as set forth in claim 1,
 - 25 wherein the plurality of three dimensional playing segments comprises 64 playing segments defining, respectively, 64 playing spaces.
6. A chess game playing array assembly as set forth in claim 5,
 - 30 wherein the plurality of three dimensional playing segments are disposed relative to one another to define an array of 64 playing spaces consisting of eight rows and eight columns, and wherein the playing segments in the corners of the 64 space playing array have a height greater than the heights of the other playing segments.

7. A chess game playing array assembly as set forth in claim 1,
wherein the plurality of three dimensional playing segments form a rectangular
shape graduated array and include corner playing segments having a first
elevation, middle playing segments having a second elevation, and intermediate
5 playing segments having an elevation intermediate to that of the first elevation
and second elevation.

8. A chess game playing array assembly as set forth in claim 7,
wherein the first elevation is higher than the second elevation.

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9. A chess game playing array assembly as set forth in claim 1,
wherein the spacing between the respective plurality of three dimensional playing
segments is substantially uniform.

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10. A chess game playing array assembly as set forth in claim 1,
wherein at least one of the plurality of three dimensional playing segments
includes a bottom wall, a top wall and a column which connects and extends
between the bottom wall and top wall.

20

11. A chess game playing array assembly as set forth in claim 1,
wherein at least one of the plurality of three dimensional playing segments
includes a prescribed pattern.

25

12. A chess game playing array assembly as set forth in claim 1,
wherein at least one of the plurality of three dimensional playing segments has an
interior region.

30

13. A chess game playing array assembly as set forth in claim 12,
wherein the interior region is sized to receive therein one or more playing pieces
of a chess game.

14. A chess game playing array assembly as set forth in claim 12,
wherein the interior region houses a lighting element.

15. A chess game playing array assembly as set forth in claim 12,
5 wherein at least one wall of the at least one playing segment is transparent or
translucent.

16. A chess game playing array assembly as set forth in claim 1, further
including one or more void fillers disposed in the respective one or more voids.

10

17. A chess game playing array assembly as set forth in claim 16,
wherein the one or more void fillers comprises an upstanding wall separating
adjacently disposed playing segments.

15 18. A chess game playing array assembly as set forth in claim 1,
wherein the plurality of three dimensional playing segments comprise first and
second opposing playing segments, each playing segment defining a four row by
eight column array of playing spaces such that when disposed relative to one
another collectively an eight row by eight column array of playing spaces is
20 formed, wherein the first playing segment includes a different motif than that of
the second playing segment.

19. A chess game playing array assembly as set forth in claim 1,
wherein the chess game playing array assembly is displayed on a display as a
25 graphical user interface.

20. A chess game playing array assembly as set forth in claim 1, further
including a logic stored by a memory, the logic being processed by a processor to
display an image of the chess game playing array assembly on a display.

30

21. A chess game playing array assembly as set forth in claim 20,
wherein the logic stored in memory comprises a computer program adapted to
receive design parameter inputs.

5 22. A chess game playing array assembly as set forth in claim 21,
wherein the design parameter inputs comprise a respective size and shape of the
three dimensional playing segments, a quantity of playing segments, a quantity of
playing spaces provided by the respective quantity of playing segments, an
arrangement of the playing segments and a respective size and shape of the
10 voids.

15 23. A chess game playing array assembly comprising:
 a plurality of three-dimensional playing segments disposed relative
to one another to define an array of playing spaces on which a game of chess
may be played;
 wherein at least one of the playing segments includes a motif
different from that of another of the playing segments.

20 24. A chess game playing array assembly as set forth in claim 23,
wherein the plurality of three dimensional playing segments comprise first and
second opposing playing segments, wherein the first playing segment includes a
different motif than that of the second playing segment.

25 25. A chess game playing array assembly as set forth in claim 24,
wherein each of the first and second playing segments defines a four row by eight
column array of playing spaces such that when disposed relative to one another
collectively an eight row by eight column array of playing spaces is formed.

30 26. A chess game playing array assembly as set forth in claim 24,
wherein the first and second playing segments are disposed in opposing abutting
relation.

27. A chess game playing array assembly as set forth in claim 24,
wherein the first and second playing segments are sloped.
28. A chess game playing array assembly comprising:
5 first, second and third three dimensional playing segments disposed
relative to one another to define an array of playing spaces on which a game of
chess may be played;
the first and second playing segments each defining a two row by
eight column array of playing spaces, and the third playing segment defining a
10 four row by eight column array of playing spaces, the third playing segment being
disposed between the first and second playing segments to form an eight row by
eight column array of playing spaces.
29. A chess game playing array assembly as set forth in claim 28,
15 wherein the first playing segment includes a different motif than that of the second
playing segment.
30. A chess game playing array assembly as set forth in claim 28,
wherein for a traditional chess game the first playing segment forms the original
20 starting positions for a first chess player's pieces and the second playing segment
forms the original starting positions for a second chess player's pieces.

ABSTRACT

A chess game playing array assembly including a plurality of three-dimensional playing segments is disclosed. The playing segments are disposed relative to one another to define an array of playing spaces on which a game of chess may be played. One or more of the plurality of three dimensional playing segments may be spaced apart by one or more voids or in abutting relation with one another.

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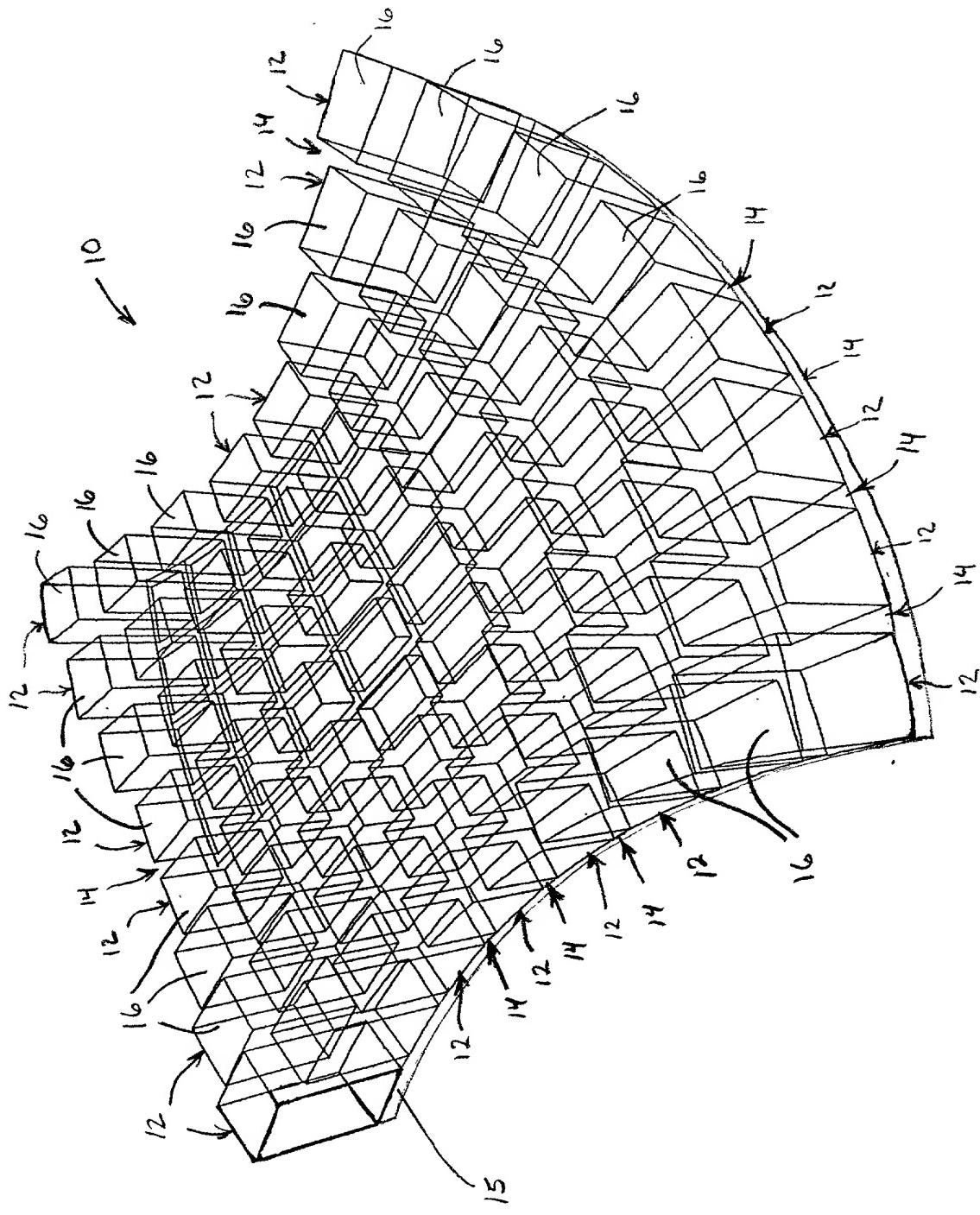


Fig. 1

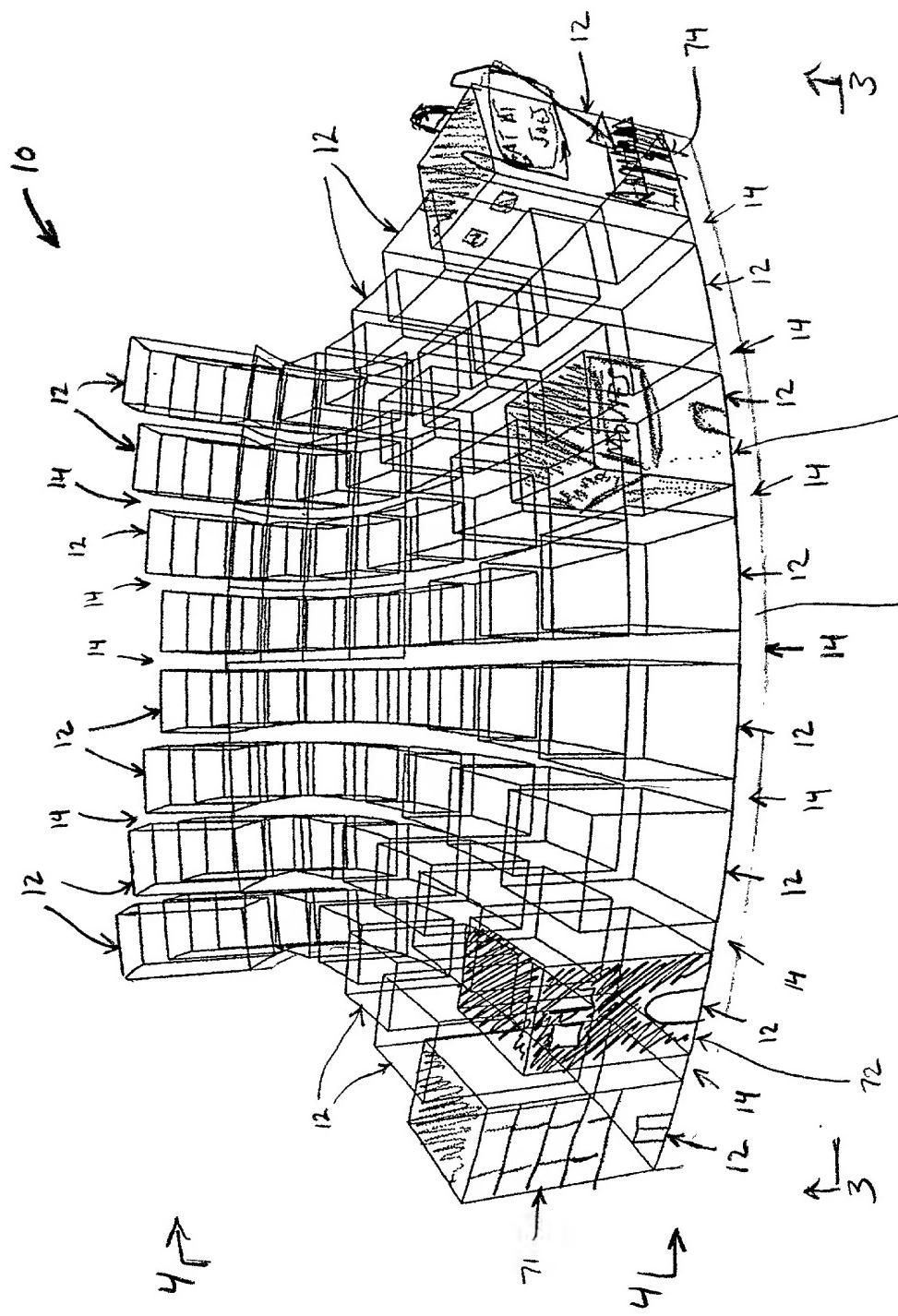


Fig. 2

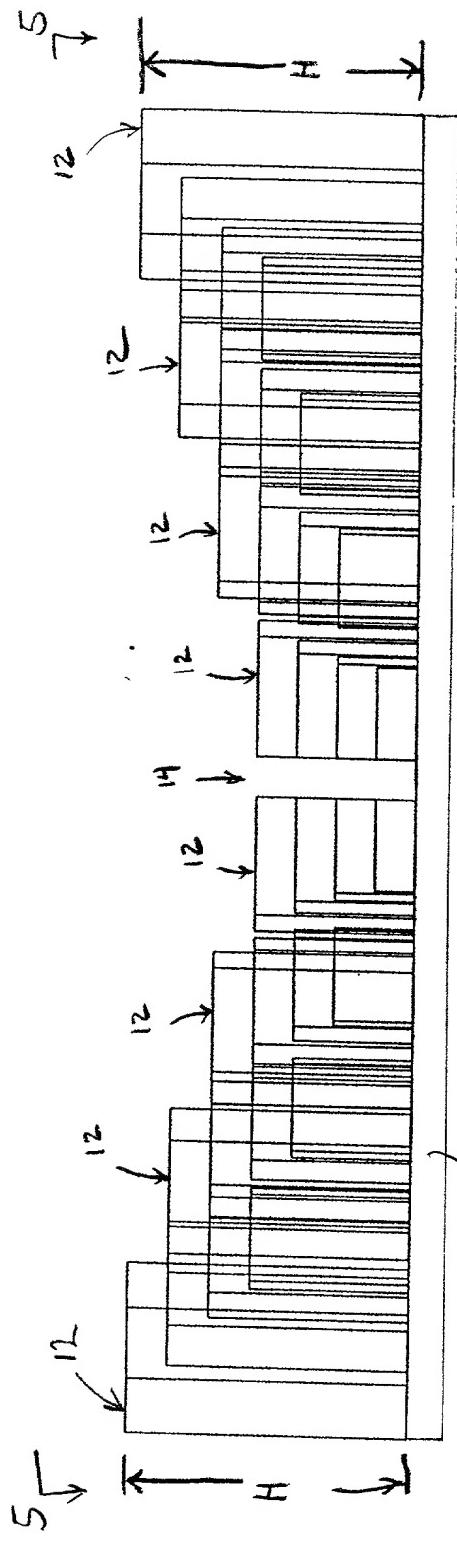


Fig.3

15

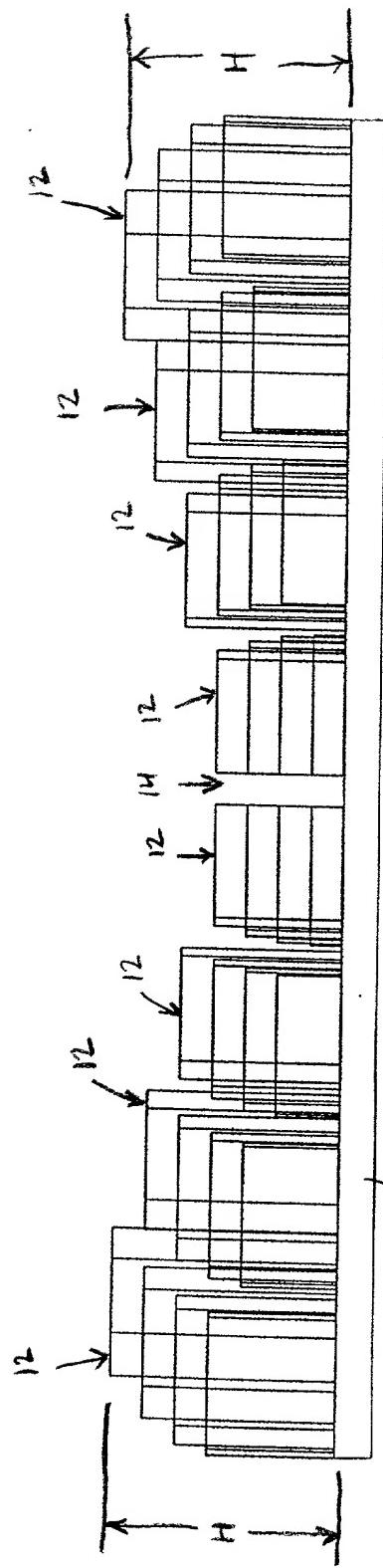


Fig.4

15

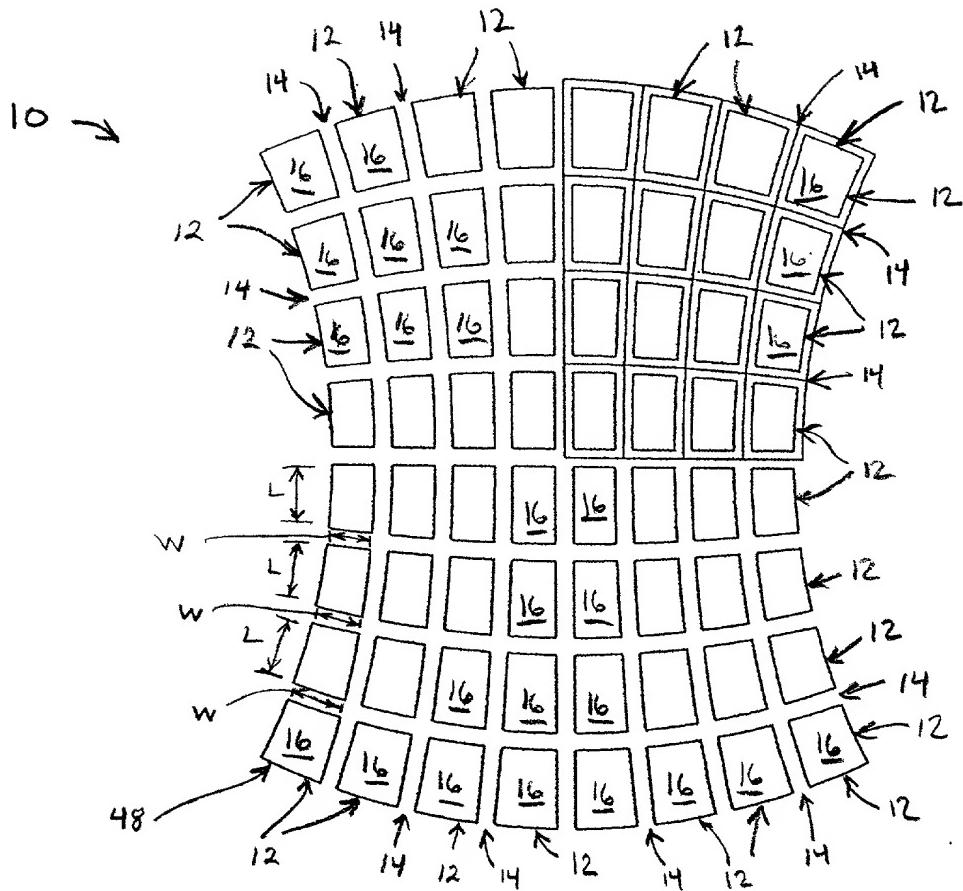


Fig. 5

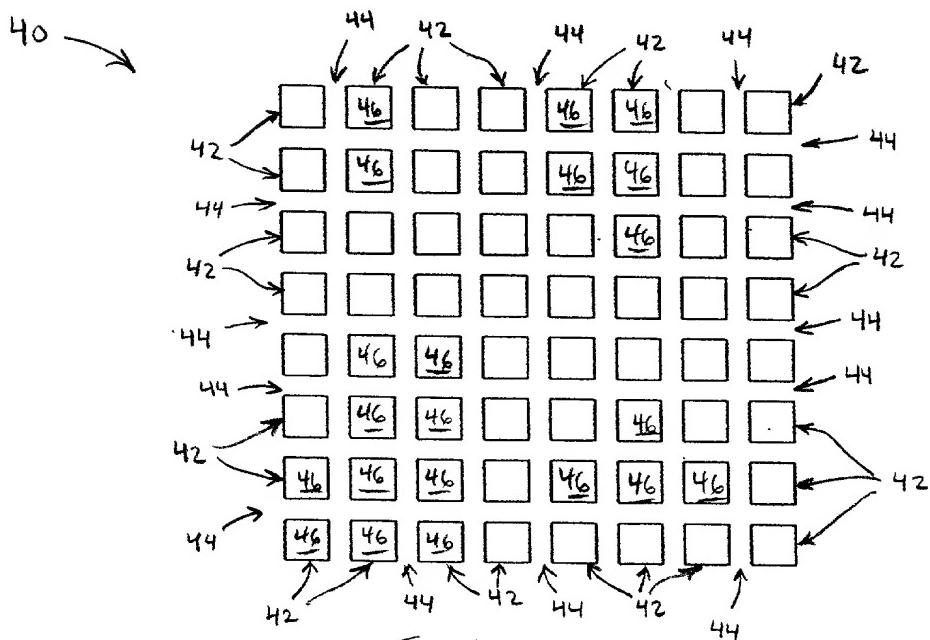


Fig. 6

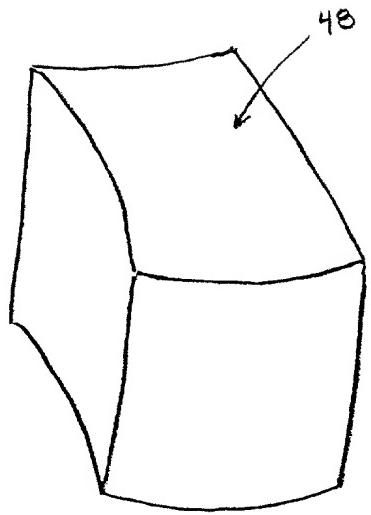


Fig. 7

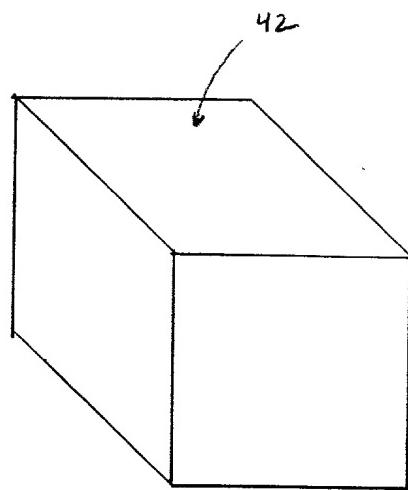


Fig. 8

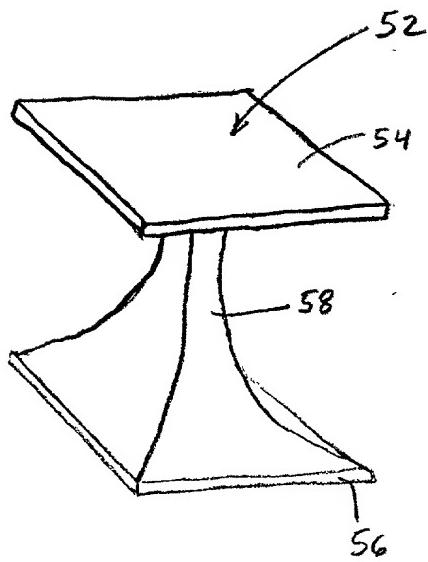


Fig. 9

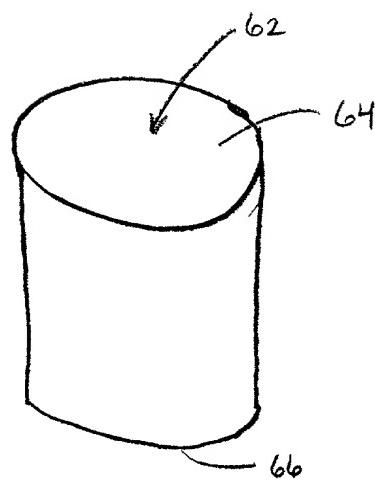


Fig. 10

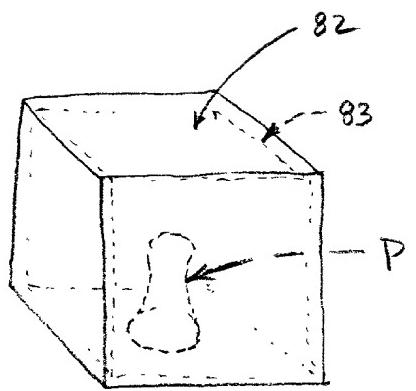


Fig. 11

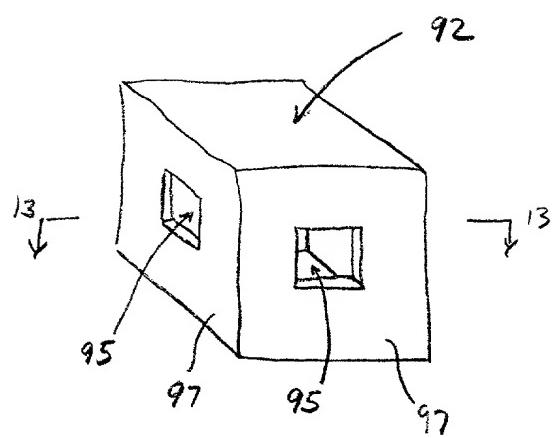


Fig. 12

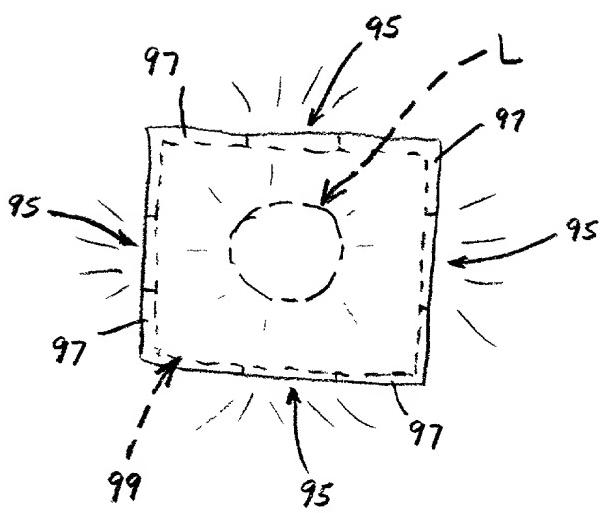


Fig. 13

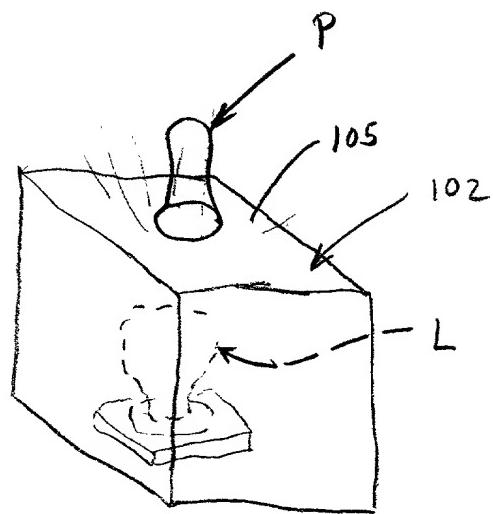


Fig. 14

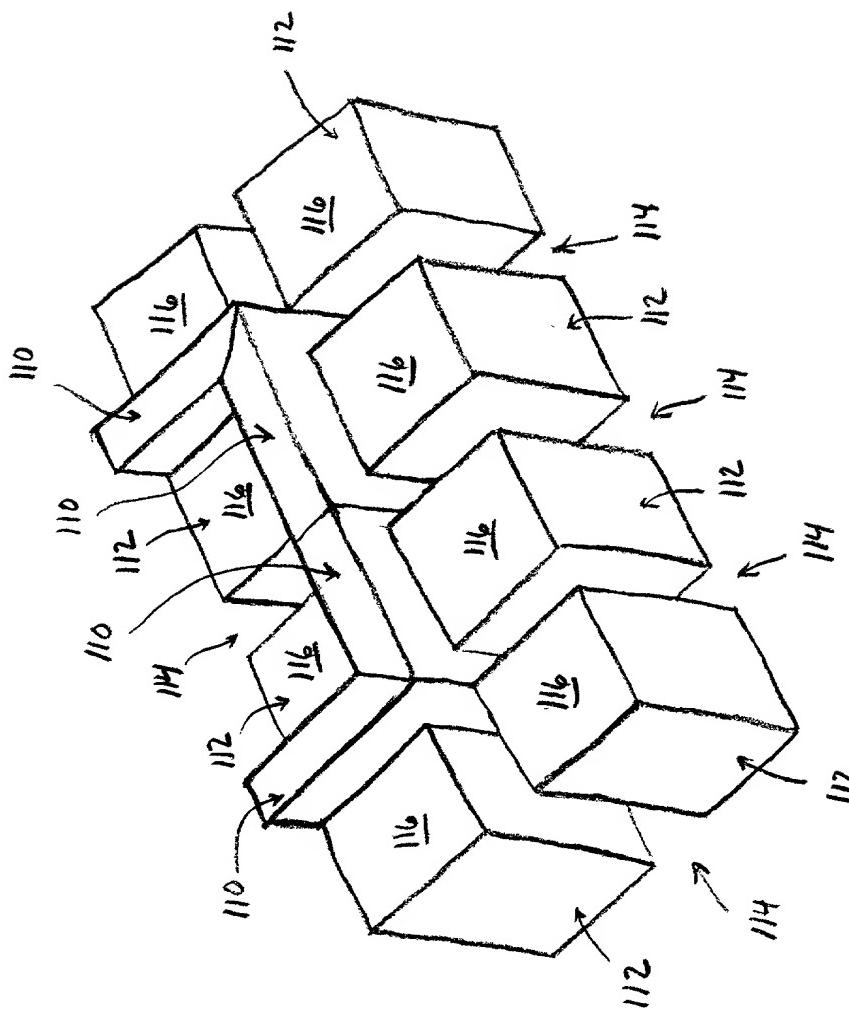
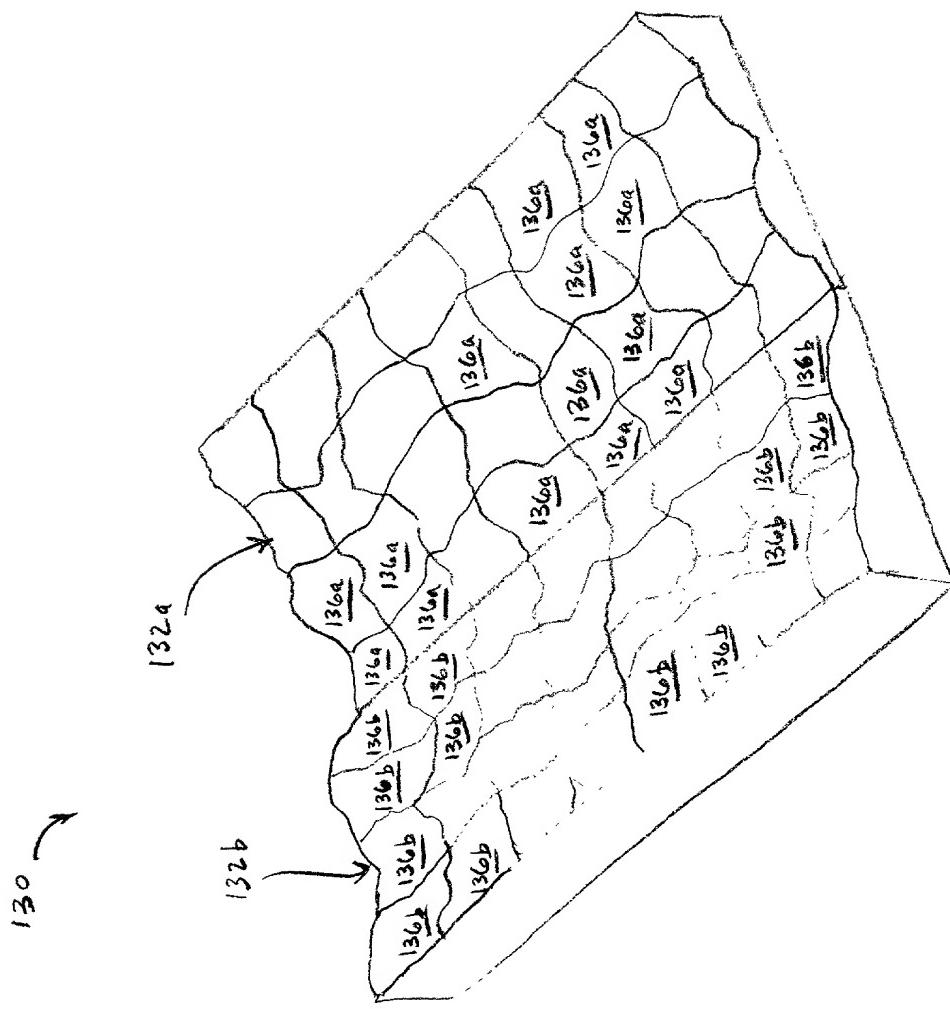


Fig. 15

Fig. 16



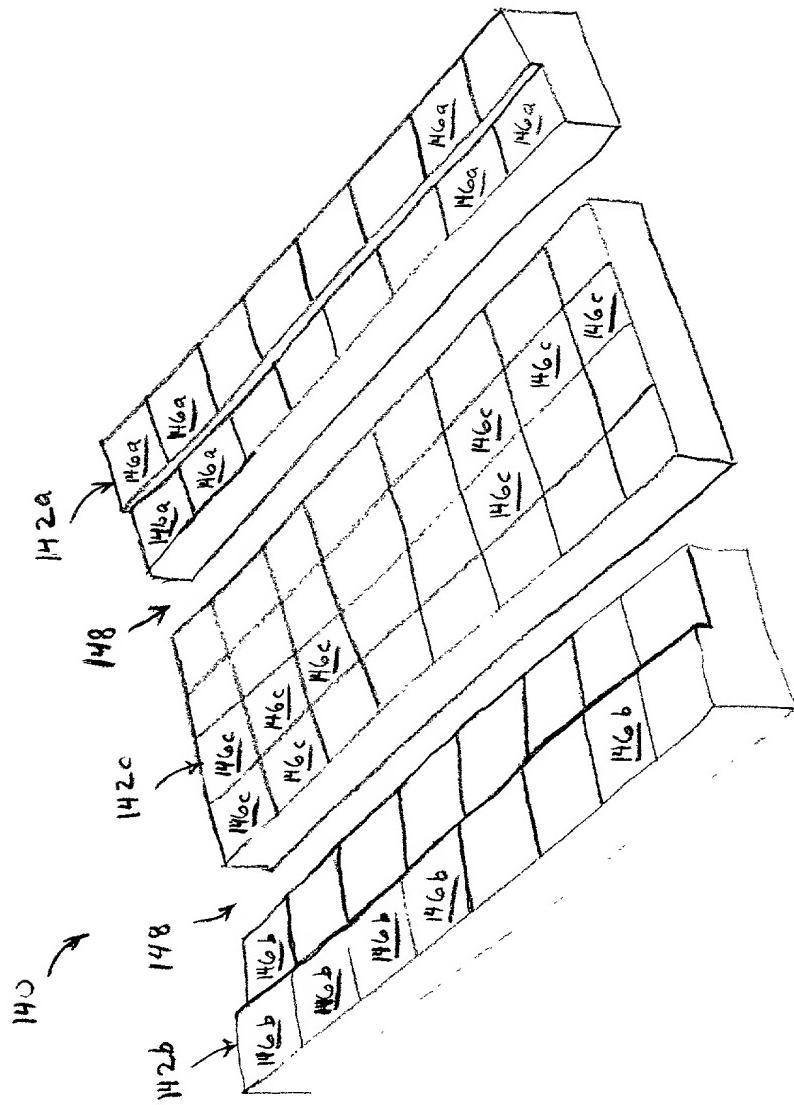


Fig. 17

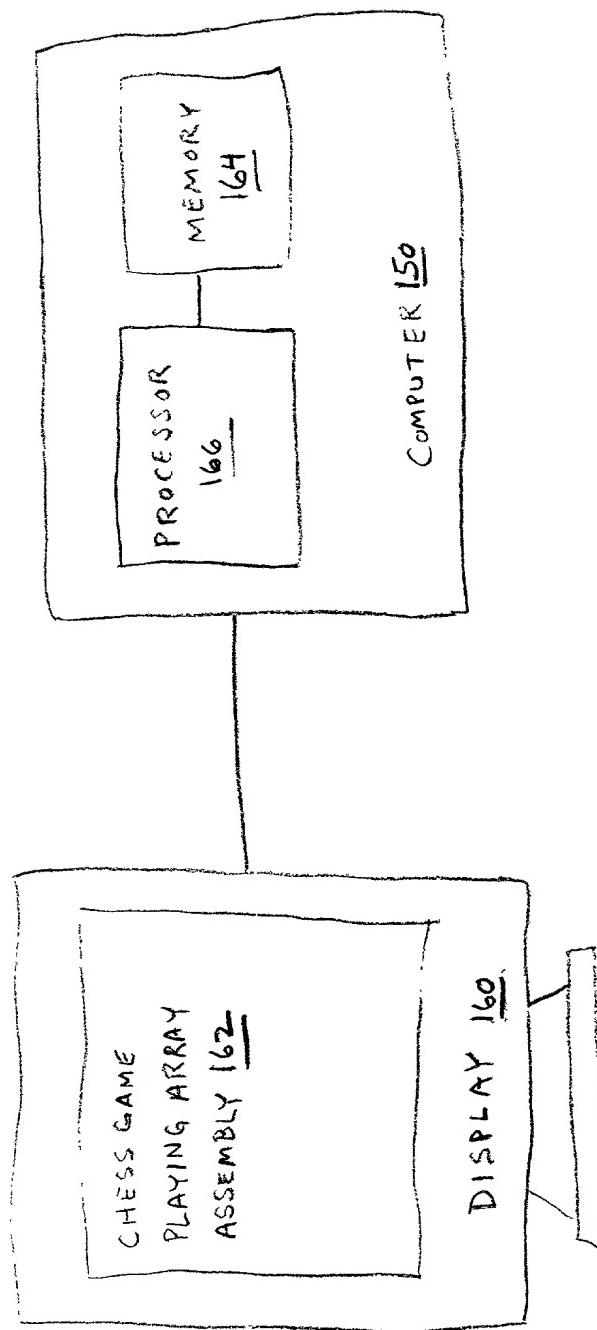


Fig. 18

**COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT)**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: CHESS GAME PLAYING ARRAY ASSEMBLY

the specification of which

is attached hereto, or

was filed as United States Application or Application No.:
PCT International Application (give *(Express Mail Label No.)*)
Express Mail label number and deposit Filing Date:
date if Application number not yet (Deposit Date)
known): Amended on (*if applicable*):

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations § 1.56(a).

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| Application No. | Filing Date | Patent Number |
|-----------------|-------------|---------------|
| | | |

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. 119(e)

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) that is/are listed below

| Application No. | Filing Date |
|-----------------|-------------|
| | |

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

| Name | Registration No. | Name | Registration No. |
|----------------|------------------|-----------------|------------------|
| Donald L. Otto | 22,125 | Paul R. Steffes | 43,156 |

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Fax No. (216) 621-6165

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued therein.

Full Name of Sole or First Inventor: Robert H. Hutchins, Jr.

| | | | |
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| Inventor's signature: |  | Date: | 6.7.2000 |
| Residence: (City & State/Country): | Opelika, Alabama | Citizenship: | USA |
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Full Name of Additional Joint Inventor (if any):

| | | | |
|------------------------------------|--|--------------|--|
| Inventor's signature: | | Date: | |
| Residence: (City & State/Country): | | Citizenship: | |
| Post Office Address: | | | |

End of Declaration and Power of Attorney (D-US-1.FRM)

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